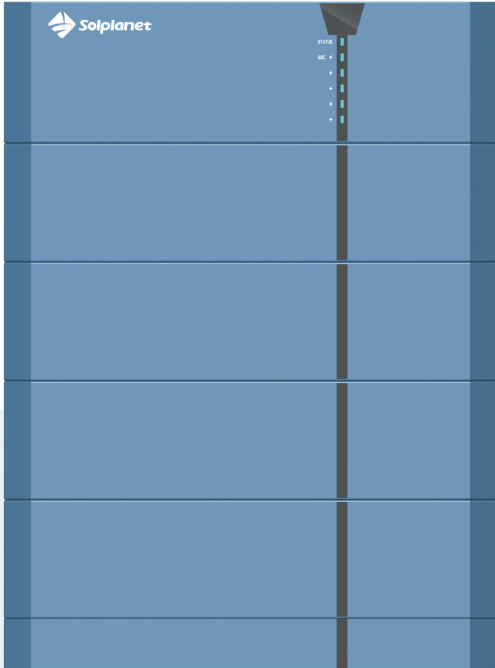


# Ai-HB G2 Pro Series



Models:

- |                |                |
|----------------|----------------|
| Ai-HB Pro 075A | Ai-HB Pro 150A |
| Ai-HB Pro 100A | Ai-HB Pro 175A |
| Ai-HB Pro 125A | Ai-HB Pro 200A |



## Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- IP65 rated design for indoor and outdoor use
- Multi-use applications: self-consumption, time of use tariffs, customisation



## Safe & reliable

- VDE-compliant with enhanced protection
- Smarter and safer battery management system for precise diagnostics
- LFP safe technology with long lifespan
- Built-in emergency fire suppression module



## User-friendly

- Steady and anti-dumping design
- Quick & easy-to-install with standard tools
- Modular design with plug-in connections
- Quick connections between battery and inverter

# Technical Datasheet

Ai-HB Pro 075A

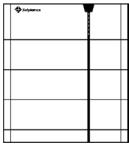
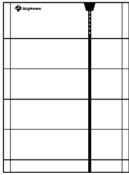
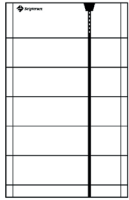
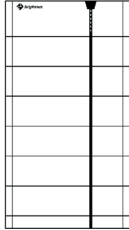
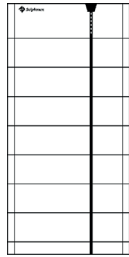
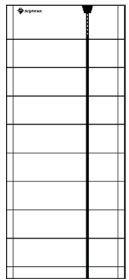
Ai-HB Pro 100A

Ai-HB Pro 125A

Ai-HB Pro 150A

Ai-HB Pro 175A

Ai-HB Pro 200A

Battery designation							
Battery module	HB051050B						
Cell type	LiFePO4						
Module quantity	3	4	5	6	7	8	
Rated capacity	50 Ah						
Nominal energy <sup>1</sup>	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh	
Usable energy <sup>2</sup>	7.29 kWh	9.72 kWh	12.16 kWh	14.59 kWh	17.02 kWh	19.45 kWh	
Nominal voltage	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V	
Operating voltage range	120 V ~ 175.2 V	160 V ~ 233.6 V	200 V ~ 292 V	240 V ~ 350.4 V	280 V ~ 408.8 V	320 V ~ 467.2 V	
Max.charging current	50 A						
Max.discharging current	50 A						
Rated charging / discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	
Max.charging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	
Max.discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	
System Data	Dimensions (W / D / H)	540 / 390 / 600 mm	540 / 390 / 730 mm	540 / 390 / 860 mm	540 / 390 / 990 mm	540 / 390 / 1120 mm	540 / 390 / 1250 mm
	Weight	109.0 kg	140.0 kg	171.0 kg	202.0 kg	233.0 kg	264.0 kg
	Battery module weight	31.0 kg					
	Installation location	Indoor / Outdoor					
	Mounting method	Floor mounted					
	Operating temperature range	Charge: 2 °C ~ 58 °C Discharge: -28 °C ~ 58 °C					
	Storage temperature range	-20 °C ~ 45 °C					
	Cooling concept	Natural convection					
	Degree of protection	IP65					
	Relative humidity	5 ~ 95 %, non - condensing					
	Communication	CAN					
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression, etc					
	Certification	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3					
	General Data	Life cycle <sup>3</sup>	8000 times				
Round-trip efficiency		≥95%					

1. Nominal energy is defined under the following conditions: cell voltage 2.5~3.65V, 0.5C charge / discharge at +25°C.

2. Usable energy is defined under the following conditions: 95% DOD, 0.5C charge / discharge at +25°C. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.

3. Life cycle is defined under the following conditions: 90% DOD, 70% EOL, 0.2C charge / discharge at +25°C.

